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To: William Neuder
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Wednesday, June 14, 2006

Case Serial Number: 10/824316

From: Etelka R. Griffin
Location: EIC 3600
KNOX/4B68
Phone: 571-272-4230

Etelka.griffin@uspto.gov

Search Notes

LITIGATION-6394193

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618681 (09) 6394193 May 28, 2002

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6394193

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May 28, 2002

Downhole adjustable bent housing for directional drilling

REISSUE: April 14, 2004 - Reissue Application filed Ex. Gp.: 3671; Re. S.N. 10/824,316 (O.G. August 3, 2004)

APPL-NO: 618681 (09)

FILED-DATE: July 19, 2000

GRANTED-DATE: May 28, 2002

ASSIGNEE-PRE-ISSUE: July 19, 2000 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., SCHLUMBERGER TECHNOLOGY CORPORATION 110 SCHLUMBERGER DRIVESUGAR LAND, TEXAS, 77478, Reel and Frame Number: 011004/0642

ASSIGNEE-AT-ISSUE: Schlumberger Technology Corporation, Sugar Land, Texas, United States (US), United States company or corporation (02)

CORE TERMS: mandrel, housing, collar, groove, bent, adjustable, downhole, articulating, leg, actuation ...

ENGLISH-ABST:

The present invention provides a hydraulically actuated downhole adjustable bent housing for use in directional drilling of bore holes and wells that allows adjustment of the housing from aligned to a bent configuration without raising or lowering the drillstring. The present invention also provides a method of directionally drilling a bore hole or a well using an downhole adjustable bent housing that can be operated without raising or lowering the drillstring.

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Date/Time: Wednesday, June 14, 2006 - 12:27 PM EDT



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Terms and Connectors Natural Language Easy Search

6394193 or 6,394,193

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Suggested Words and Concepts for Entered Terms:

six-tenth	game	inning	victory
rose	shot	New York	Commerce Department
scored	team	played	round
consumer	economist	goal	homer
inflation	pitch	hole	income
price	race	spending	straight

Search Con

Use connectors
between search
connector for de
connector to ad

Syntax Def

and	and
or	or
w/N	withi
not w/N	not v
pre./N	prec
w/p	in se
not w/p	not i
w/seg	in sa
not w/seg	not i
w/s	in se
not w/s	not i
and not	and

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and and
or or
w/N withi
not w/N not w
pre/N prec
w/p in sa
not w/p not i
w/seg in se
not w/seg not i
w/s in se
not w/s not i
and not and
View

Suggested Words and Concepts for Entered Terms:

six-tenth	game	inning	victory
rose	shot	New York	Commerce Department
scored	team	played	round
consumer	economist	goal	homer
inflation	pitch	hole	income
price	race	spending	straight

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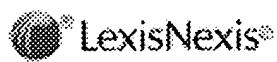
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1 / 1 **PLUSPAT - QUESTEL-ORBIT**

Patent Number :
US6394193 B1 20020528 [US6394193]

Title :
(B1) Downhole adjustable bent housing for directional drilling

Patent Assignee :
(B1) SCHLUMBERGER TECHNOLOGY CORP (US)

Patent Assignee :
Schlumberger Technology Corporation, Sugar Land TX (US)

Inventor(s) :
(B1) ASKEW WARREN (US)

Application Nbr :
US61868100 20000719 [2000US-0618681]

Priority Details :
US61868100 20000719 [2000US-0618681]

Intl Patent Class :
(B1) E21B-007/04

IPC Advanced All :
E21B-007/06 [2006-01 A - I R M EP]; E21B-023/04 [2006-01 A - I R M EP]

IPC Core All :
E21B-007/04 [2006 C - I R M EP]; E21B-023/00 [2006 C - I R M EP]

EPO ECLA Class :
E21B-007/06K
E21B-023/04

US Patent Class :
ORIGINAL (O) : 175061000; CROSS-REFERENCE (X) : 175073000

Document Type :
Basic

Citations :
US5363929; US5535835; US5725061; US5727641; US5735357; US6109372

Publication Stage :
(B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

Abstract :
The present invention provides a hydraulically actuated downhole adjustable bent housing for use in directional drilling of bore holes and wells that allows adjustment of the housing from aligned to a bent configuration without raising or lowering the drillstring. The present invention also provides a method of directionally drilling a bore hole or a well using an downhole adjustable bent housing that can be operated without raising or lowering the drillstring.

Update Code :
2002-23

1 / 1 **LGST - GEPO**

Patent Number :
US6394193 B1 20020528 [US6394193]

Application Number :
US61868100 20000719 [2000US-0618681]

Action Taken :
20000719 US/AS-A
ASSIGNMENT
OWNER: SCHLUMBERGER TECHNOLOGY CORPORATION 110 SCHLUMBERG; EFFECTIVE
DATE: 20000719
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:ASKEW,
WARREN;REEL/FRAME:011004/0642

20020723 US/CC-A
CERTIFICATE OF CORRECTION

20040803 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040414

Update Code :
2004-34

1 / 1 CRXX - @CLAIMS/RRX
Patent Number :
6,394,193 A 20020528 [US6394193]
Patent Assignee :
Schlumberger Technology Corp
Actions :
20040414 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040803
REISSUE REQUEST NUMBER: 10/824316
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3671

Reissue Patent Number:

Query/Command : PRT SS 1 MAX 1 LEGAL

1 / 1 INPADOC - @INPADOC

Patent Number :

US 6394193 BA 20020528 [US6394193]

Title :

DOWNHOLE ADJUSTABLE BENT HOUSING FOR DIRECTIONAL DRILLING

Inventor(s) :

ASKEW WARREN [US]

Patent Assignee (Words) :

SCHLUMBERGER TECHNOLOGY CORP [US]

Application Details :

US 618681/00-A 20000719 [2000US-0618681]

Priority Details :

US 618681/00-A 20000719 [2000US-0618681]

Intl. Patent Class. :

E21B-007/04

1 / 1 LGST - @EPO

Patent Number :

US6394193 B1 20020528 [US6394193]

Application Number :

US61868100 20000719 [2000US-0618681]

Action Taken :

20000719 US/AS-A

ASSIGNMENT

OWNER: SCHLUMBERGER TECHNOLOGY CORPORATION 110 SCHLUMBERG; EFFECTIVE

DATE: 20000719

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:ASKEW,
WARREN;REEL/FRAME:011004/0642

20020723 US/CC-A

CERTIFICATE OF CORRECTION

20040803 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040414

Update Code :

2004-34